

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions and listings of claims in the application:

1-42. (Cancelled)

43. (Currently Amended) A fuel composition comprising:

from [[40]] 60 to 95% by weight of a fossil fuel; and

from [[60]] 40 to 5% by weight of a non-fossil solid fuel comprising urban solid waste and a further component chosen from the group comprising elastomeric and non-elastomeric polymer materials and mixtures thereof,

wherein said non-fossil solid fuel has an apparent density equal to or less than 0.6 g/cm^{[[2]]}³, and

wherein said urban solid waste has been obtained by removing therefrom putrefiable organic compounds and metals, and by drying, grinding and screening.

44. (Original) The fuel composition of Claim 43, wherein said urban solid waste has been dried to a moisture content of less than or equal to 10%.

45. (Original) The fuel composition of Claim 43, wherein said non-elastomeric polymer material has been dried to a moisture content of less than or equal to 10%.

46. (Original) The fuel composition of Claim 43, wherein the apparent density of said non-fossil solid fuel is from 0.3 to 0.5 g/cm³.

47. (Currently Amended) The fuel composition of Claim 43, wherein the amount of the said fossil fuel is between [[50]] 60 and 90% by weight.

48. (Original) The fuel composition of Claim 47, wherein the amount of the said fossil fuel is between 60 and 80% by weight.

49. (Currently Amended) The fuel composition of Claim 43, wherein the amount of the said non-fossil solid fuel is between [[50]] 40 and 10% by weight.

50. (Original) The fuel composition of Claim 49, wherein the amount of the said non-fossil solid fuel is between 40 and 20% by weight.

51. (Original) The fuel composition of Claim 43, wherein the fossil fuel comprises at least one of methane, fuel oil, and fossil coal dust.

52. (Original) The fuel composition of Claim 51, wherein the fossil fuel comprises fuel oil, the fuel oil being in emulsion form.

53. (Original) The fuel composition of Claim 51, wherein the fossil fuel comprises fossil coal dust, the fossil coal dust being in suspension form.

54. (Original) The fuel composition of Claim 43, wherein the said non-fossil solid fuel comprises a first fraction consisting of urban solid waste, a second fraction consisting of elastomeric material, and a third fraction consisting of non-elastomeric polymer material.

55. (Original) The fuel composition of Claim 43, wherein the non-fossil solid fuel comprises particles of non-fossil solid fuel, the particles having a particle size of less than 1 mesh.

56. (Original) The fuel composition of Claim 43, wherein the non-fossil solid fuel comprises particles of non-fossil solid fuel, and wherein at least 90% by weight of the particles are smaller than 2 mesh in size.

57. (Original) The fuel composition of Claim 43, wherein the non-fossil solid fuel comprises particles of non-fossil solid fuel, and wherein at least 50% by weight of the particles are smaller than 4 mesh in size.

58. (Original) The fuel composition of Claim 43, wherein the non-elastomeric polymer comprises particles of non-elastomeric polymer material, and wherein the particles of non-elastomeric polymer material are less than 5 mm in size.

59. (Original) The fuel composition of Claim 43, wherein the said non-fossil solid fuel comprises a mixture comprising from 40 to 80% by weight of dry urban solid waste, from 10 to 50% by weight of elastomeric material, and from 10 to 50% by weight of non-elastomeric polymer material.

60. (Original) The fuel composition of Claim 43, wherein the said non-fossil solid fuel comprises a mixture comprising from 60 to 80% by weight of dry urban solid waste, from 10 to 30% by weight of elastomeric material, and from 10 to 30% by weight of non-elastomeric polymer material.

61. (Currently Amended) A combustion method comprising:
feeding a flame of a burner with a fuel material comprising
from [[40]] 60 to 95% by weight of a fossil fuel and
from [[60]] 40 to 5% by weight of a non-fossil solid fuel comprising
urban solid waste and a further component chosen from the group
comprising elastomeric and non-elastomeric polymer materials and
mixtures thereof,
said non-fossil solid fuel having an apparent density equal to or less than
0.6 g/cm^{[[2]]}³,
said urban solid waste having been obtained by removing
therefrom putrefiable organic compounds and metals, and by drying,
grinding and screening; and

combusting said fuel material.

62. (Original) The method of Claim 61, wherein at least 90% by weight of said fossil fuel and at least 90% by weight of said non-fossil fuel combust in less than 10 seconds at a temperature between 1500°C and 2000°C.

63. (Original) The method of Claim 62, wherein said combustion is carried out in less than 5 seconds at a temperature between 1500°C and 2000°C.

64. (Original) The method of Claim 62, wherein said combustion is carried out in less than 3 seconds at a temperature between 1500°C and 2000°C.

65. (Original) The method of Claim 61, wherein said fossil fuel and said non-fossil solid fuel are fed to the burner separately.

66. (Original) The method of Claim 61, wherein said urban solid waste is dried to a moisture content of less than or equal to 10%.

67. (Original) The method of Claim 61, wherein said non-elastomeric polymer material is dried to a moisture content of less than or equal to 10%.

68. (Original) The method of Claim 61, wherein the apparent density of said non-fossil solid fuel is from 0.3 to 0.5 g/cm³.

69. (Currently Amended) The method of Claim 61, wherein the amount of said fossil fuel is between [[50]] 60 and 90% by weight.

70. (Original) The method of Claim 69, wherein the amount of said fossil fuel is between 60 and 80% by weight.

71. (Currently Amended) The method of Claim 61, wherein the amount of the said non-fossil solid fuel is between [[50]] 40 and 10% by weight.

72. (Original) The method of Claim 71, wherein the amount of the said non-fossil solid fuel is between 40 and 20% by weight.

73. (Original) The method of Claim 61, wherein the fossil fuel comprises at least one of methane, fuel oil, and fossil coal dust.

74. (Original) The method of Claim 73, wherein the fossil fuel comprises fuel oil, the fuel oil being in emulsion form.

75. (Original) The method of Claim 73, wherein the fossil fuel comprises fossil coal dust, the fossil coal dust being in suspension form.

76. (Original) The method of Claim 61, wherein the said non-fossil solid fuel comprises a first fraction consisting of urban solid waste, a second fraction consisting of elastomeric material and a third fraction consisting of non-elastomeric polymer material.

77. (Original) The method of Claim 61, wherein the non-fossil solid fuel comprises particles of non-fossil solid fuel, the particles having a particle size of less than 1 mesh.

78. (Original) The method of Claim 61, wherein the non-fossil solid fuel comprises particles of non-fossil solid fuel, and wherein at least 90% by weight of the particles are smaller than 2 mesh in size.

79. (Original) The method of Claim 61, wherein the non-fossil solid fuel comprises particles of non-fossil solid fuel, and wherein at least 50% by weight of the particles are smaller than 4 mesh in size.

80. (Original) The method of Claim 61, wherein the non-elastomeric polymer material comprises particles of non-elastomeric polymer material, and wherein the particles are less than 5 mm in size.

81. (Original) The method of Claim 61, wherein said non-fossil solid fuel consists of a mixture comprising from 40 to 80% by weight of dry urban solid waste, from 10 to 50% by weight of elastomeric material and from 10 to 50% by weight of non-elastomeric polymer material.

82. (Original) The method of Claim 61, wherein the said non-fossil solid fuel consists of a mixture comprises from 60 to 80% by weight of dry urban solid waste, from 10 to 30% by weight of elastomeric material and from 10 to 30% by weight of non-elastomeric polymer material.